

# FIG.1A

V<sub>L</sub> sequence of the light chain of murine 44H104 mab:

ATG GAC ATG AGG GTT CCT GCT CAC GTT TTT GGC TTC TTG TCG TGG TTT	Met Asp	Met Arg	Val Pro	Ala His	Val Phe	Gly Phe	Leu Leu	Leu Trp	Phe
CCA GGT ACC AGA TGT GAC ATC CAG ATG ACC CAG TCT CCA TCC TTA TCT	Pro Gly	Thr Arg	Cys Asp	Ile Gln	MET Thr	Gln Ser	Pro Ser	Leu Ser	TCT
GCC TCT CTG GGA CAA AGA GTC AGT CTC ACT TGT CGG GCA AGT CAG GAA ATT	Ala Ser	Leu Gly	Gln Arg	Val Ser	Leu Thr	Cys Arg	Ala Ser	Gln Glu	Ile
AGT GGT TAC TTA ACC TGG CTT CAG CAG AAA CCA GAT GGA ACT ATT AAA CGC	Ser Gly	Tyr Leu	Thr Trp	Leu Gln	Gln Gln	Pro Asp	Gly Thr	Ile Lys	Arg
CTG GTC TAC GCC GCG TCC ACT TTA GAT TCT GGT GTC CCA AAA AGG TTC AGT	Leu Val	Tyr Ala	Ala Ser	Thr Leu	Asp Ser	Gly Val	Pro Lys	Arg Phe	Ser
GGC AGT AGG TCT GGG TCA GAT TAT TCT CTC ACC ACC TCT Ile Ser TCT	Gly Ser	Arg Ser	Gly Ser	Asp Tyr	Leu Ser	Thr Thr	AGC Ser	leu Glu	Ser
GAA GAT TTT GCA GAC TAT TAC TGT CTA CAA TAT ACT AAT TAT CCG CTC ACG	Glu Asp	Phe Ala	Asp Tyr	Tyr Cys	Leu Leu	Tyr Thr	Asp Tyr	Pro Leu	Thr
TTC GGT GCT GGG ACC AAG CTG GAG CTG AAA	Phe Gly	Ala Gly	Thr Lys	Leu Glu	Leu Lys				

VH sequence of the heavy chain of murine 44H104 mab:

[illegible]

FIGURE 9A

A - Non-Reduced

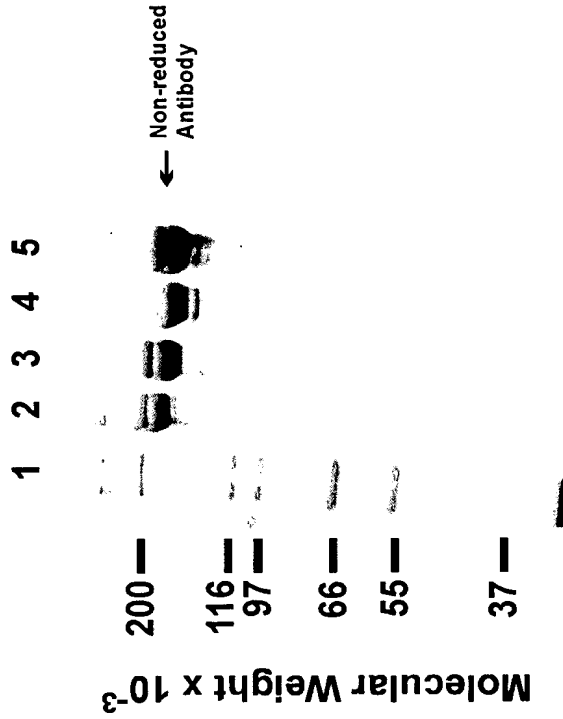
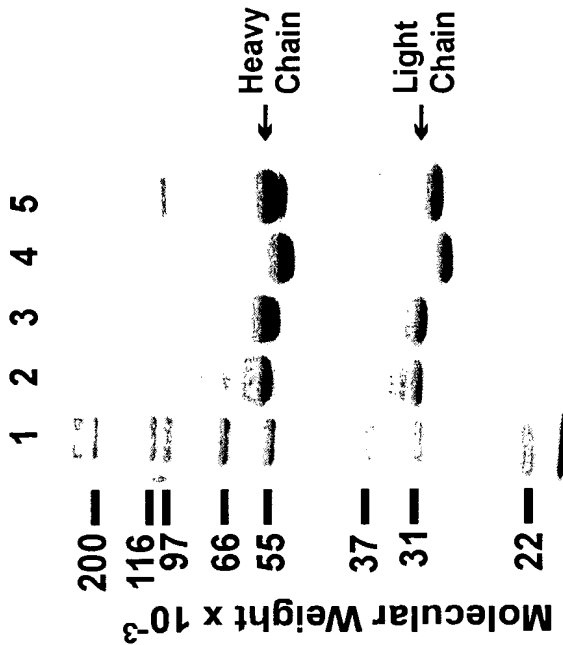


FIGURE 9B

B - Reduced



- Lane 1 Molecular weight standards
- Lane 2 Recombinant targeting antibody - Protein A purified
- Lane 3 Recombinant targeting antibody - gel filtration purified
- Lane 4 Mouse monoclonal antibody 44H104
- Lane 5 Human IgG<sub>1</sub>

FIG.9.

FIGURE 10 A

A - Non-Reduced

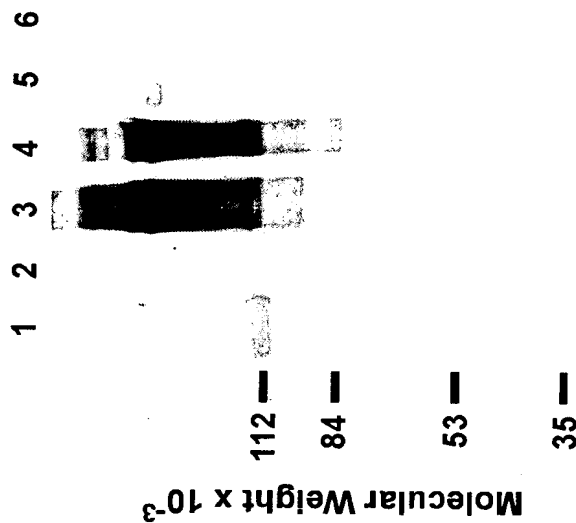
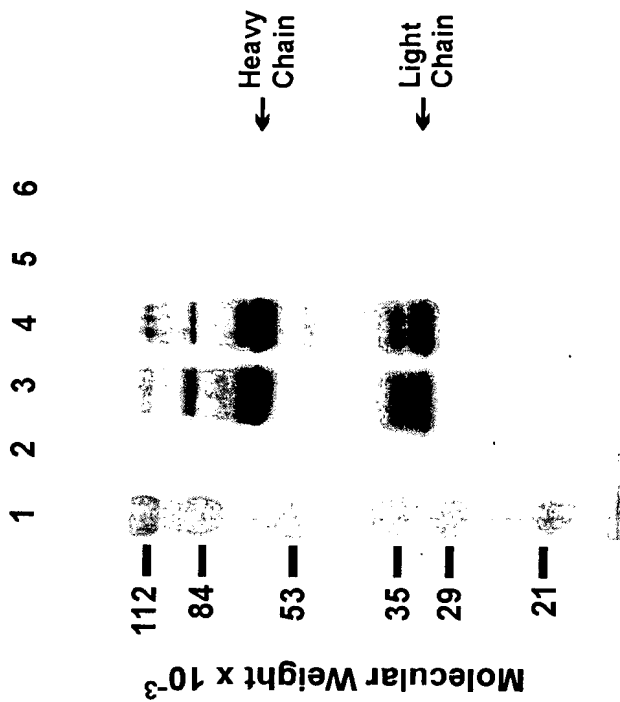


FIGURE 10 B

B - Reduced



Lane 1 Molecular weight standards

Lane 2 Blank lane

Lane 3 Recombinant targeting antibody - Protein A purified

Lane 4 Recombinant targeting antibody - gel filtration purified

Lane 5 Mouse monoclonal antibody 44H104

Lane 6 Human IgG<sub>1</sub>

FIG.10.

# FIG.1A

V<sub>L</sub> sequence of the light chain of murine 44H104 mab:

ATG GAC ATG AGG GTT CCT GCT CAC GTT TTT GGC TTC TTG TTG CTC TGG TTT	TTT
MET Asp MET Arg Val Pro Ala His Val Phe Gly Phe Leu Leu Trp Phe	Phe
CCA GGT ACC AGA TGT GAC ATC CAG ATG ACC CAG TCT CCA TCC TTA TCT	TCT
Pro Gly Thr Arg Cys Asp Ile Gln MET Thr Gln Ser Pro Ser Leu Ser	Leu Ser
GCC TCT CTG GGA CAA AGA GTC AGT CTC ACT TGT CGG GCA AGT CAG GAA ATT	ATT
Ala Ser Leu Gly Gln Arg Val Ser Ser Leu Thr Cys Arg Ala Ser Gln Glu Ile	Ile
AGT GGT TAC TTA ACC TGG CTT CAG CAG AAA CCA GAT GGA ACT ATT AAA CGC	CGC
Ser Gly Tyr Leu Thr Trp Trp Leu Gln Gln Lys Pro Asp Gly Thr Ile Lys Arg	Arg
CTG GTC TAC GCC GCG TCC ACT TTA GAT TCT TCT GTC CCA AAA AGG TTC AGT	AGT
Leu Val Tyr Ala Ala Ser Thr Thr Leu Asp Ser Ser Val Pro Lys Arg Phe Ser	Ser
GGC AGT AGG TCT GGG TCA GAT TAT TCT CTC ACC ACC GTC ATC AGC AGC TCT	TCT
Gly Ser Arg Ser Gly Ser Asp Tyr Ser Ser Leu Thr Thr Ile Ser Ser Glu Ser	Ser
GAA GAT TTT GCA GAC TAT TAC TGT CTA CAA TAT ACT AAT TAT CCG CTC ACG	ACG
Glu Asp Phe Ala Asp Tyr Tyr Cys Leu Leu Gln Tyr Thr Asp Tyr Pro Leu Thr	Thr
TTC GGT GCT GGG ACC AAG CTG GAG CTG AAA	AAA
Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys	Lys

# FIG.1B

VH sequence of the heavy chain of murine 44H104 mab:

ATG GCT CTC CTG GTA CTG TTC CTC TCC CTG GCT GCA TTT CCA AGC TGT GGT	MET Ala Leu Leu Val Leu Phe Leu Ser Leu Ala Phe Pro Ser Cys Gly
GTC CTG TCC CAG GTG CAG CTG AAG GAG TCA GGA CCT GGC CTG GTG GCG CCC	Val Leu Ser Gln Val Val Gln Leu Lys Glu Ser Gly Pro Gly Leu Val Ala Pro
TCA CAG AGC CTG TCC ATC ATC TGC ACT GTC TCT TCT GGG TTT TCA TTA ACC AGC	Ser Gln Ser Ser Leu Ser Ile Thr Cys Thr Val Val Ser Gly Phe Ser Leu Thr Ser
TAT GGT GTA CAC TGG GTT CGC CAG CCT CCA GGA AAG GGT CTG GAG TGG CTG	Tyr Gly Val Val His Trp Val Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Leu
GGA GTA ATA TGG GCT GGT GGA AGC ATA AAT TAT AAT TCG GCT CTC ATG TCC	Gly Val Ser Trp Ala Gly Gly Ser Ile Asn Tyr Tyr Asn Ser Ala Leu MET Ser
AGA CTG AGC ATC AGC AAA GAC AAC AAG AGC AGC CAA GAA GTT TTC TTA AAA ATG	Arg Leu Ser Ile Ser Lys Asp Asn Phe Lys Ser Gln Val Phe Leu Lys MET
AGC AGT CTG CAA ACT GAT GAC ACA GCC ATG TAC TAC TGT GCC AGA GCC TAT	Ser Ser Leu Gln Thr Asp Thr Ala MET Tyr Tyr Cys Ala Arg Ala Tyr
GGT GAC TAC GTC CAC TAT GCT ATG GAC TAC TGG GGT CAA GGA ACC TCA GTC	Gly Asp Tyr Val His Tyr Ala MET Asp Tyr Trp Gly Gln Thr Ser Val
ACC GCC TCC TCA	Thr Ala Ser Ser

## Assembly of gene encoding CLTB36

Amino acid seq. GPKEPFRDYVDRFYK NKRKRIHIGPGRAFYTTKN

Gene seq. GGTCTAAGAACCTTTAGAGACTATGTGATAGGTTTA  
TAAGAATAAGAGGAAGAGATACATATAGGCCTGGT  
AGGGCTTTTATATACTAAGAAATTAATAA

FIG.2A

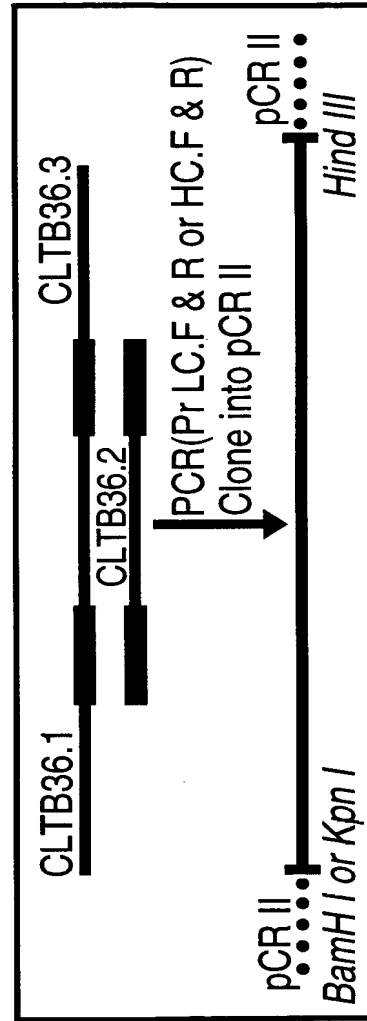


FIG.2B

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

CLTB36.1 CATTATGGATCCGGTCCTAAAGAACCTTTTAGAGACTATGTTGAT  
AGGTTTATAAGAAT

CLTB36.2 GCCCTACCAGGCCCTATATGTATCCTCTTCCCTCTTATCTTATAAA  
ACCTA

CLTB36.3 AGGCCCTGGTAGGGCTTTTATATACTACTAAGAAATTAATAAAAGCT  
TTAGCG

Pr LC.F	<i>Bam</i> H I	CATTATGGATCCCGGTCCTAA
Pr HC.F	<i>Kpn</i> I	GTCAGGTACCGGTCCTAAAGAACCTTTTAG
Pr R	<i>Hind</i> III	GGCTAAAGCCTTTTATTAAATTC

**FIG. 2C**



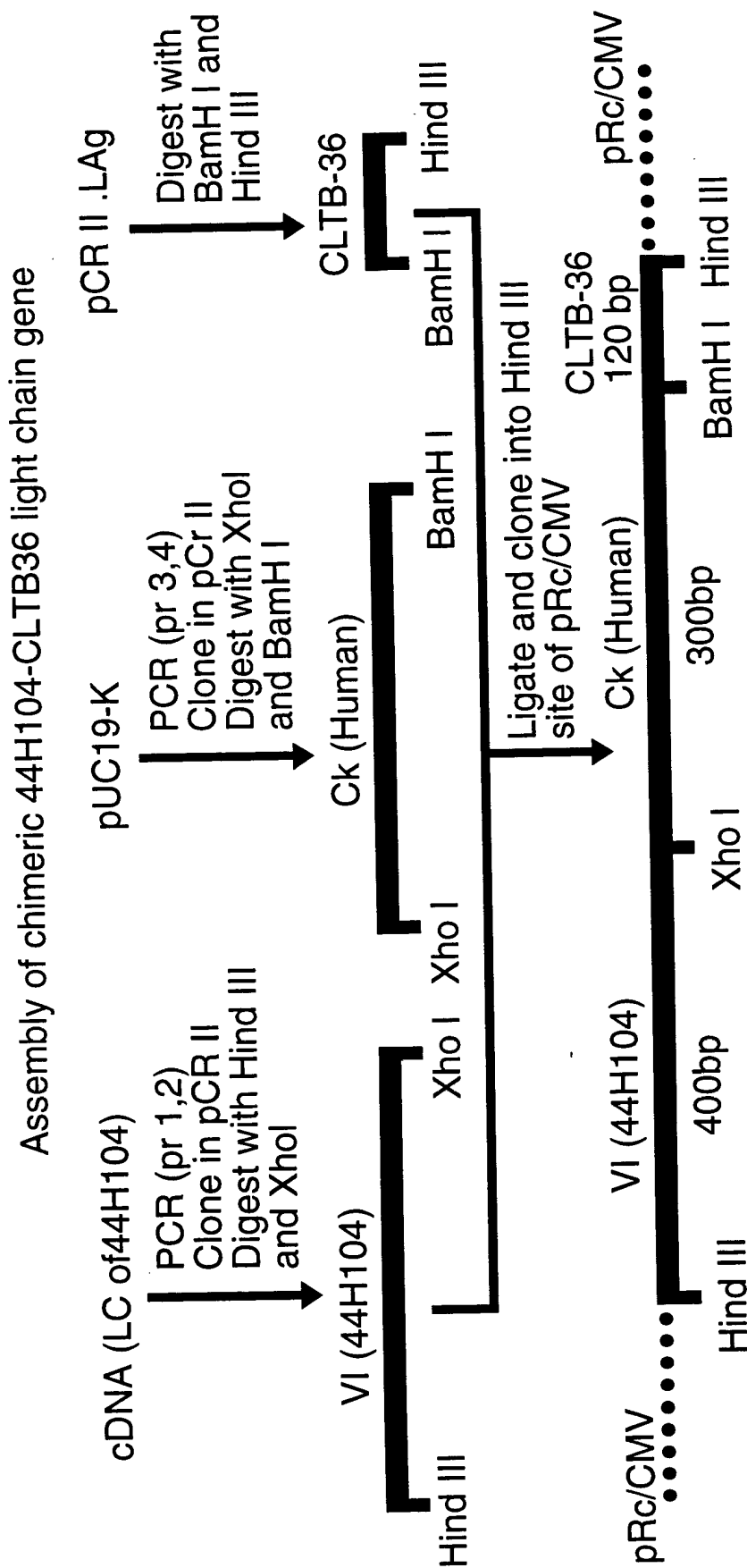


FIG.3A.

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

*Hind III*

Pr. 1 AGCCTAAGCTTCCGCCATGGACATGAGGGTTCCCTGCTC

*Xho I*

Pr. 2 CCGTTTCAGCTCGAGCTTGGTCCCAGCACCGAA

*Xho I*

Pr. 3 CCTACTCGAGCTGAAACGGACTGTGGCTGCACCATCTGTC

*BamH I*

Pr. 4 ATTAAGCTTTTACTAGGATCCACACTCTCCCCCTGTTGAAGCTC

FIG.3B.

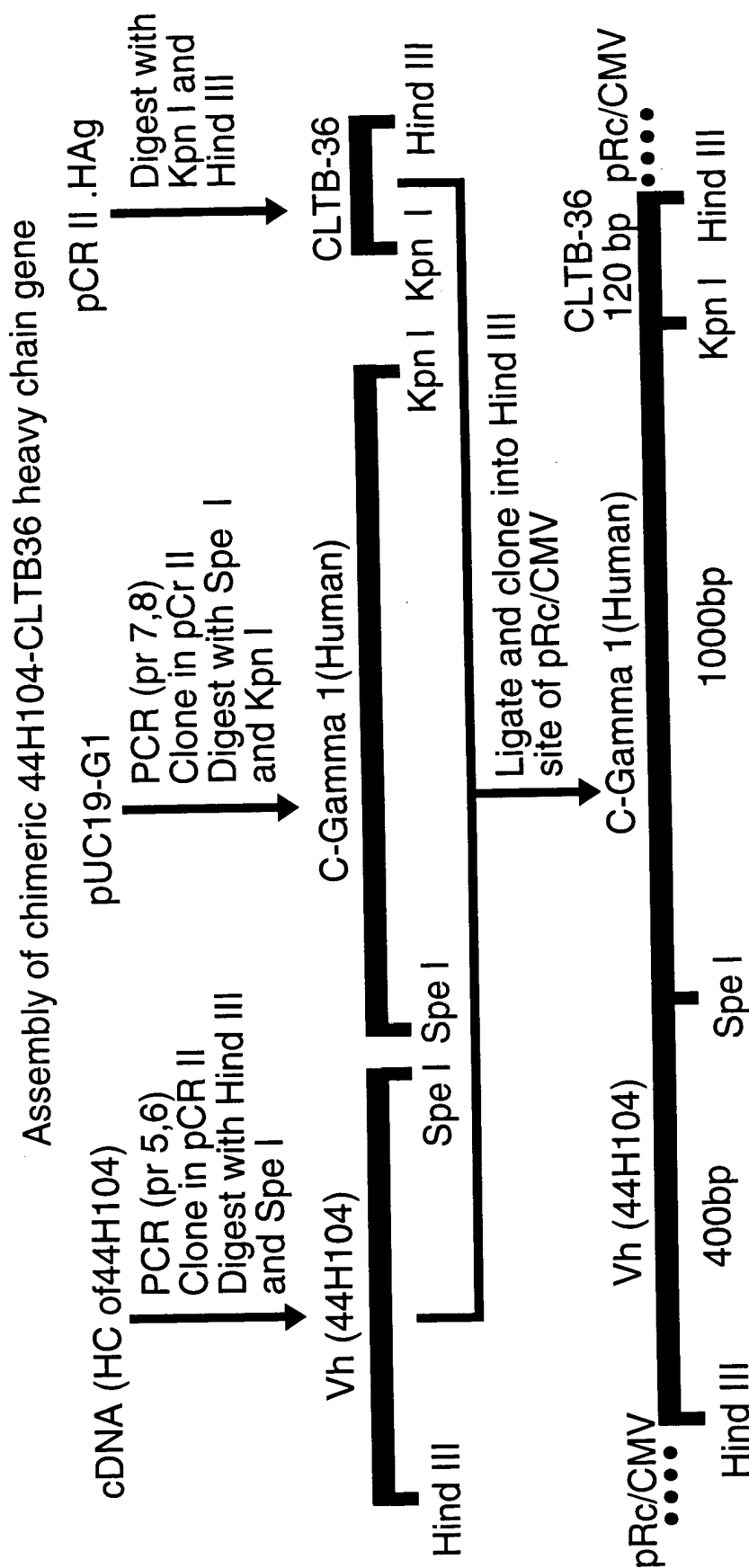


FIG.4A.

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

*Hind III*  
Pr. 5 AGCTAAGCTTCCGCCCATGGCTCTCCGTGTTCTGTTTC

*Spe I*  
Pr. 6 GCGCACTAGTTCCCTTGACCCCCAGTAGTCC

*Spe I*  
Pr. 7 GCGCACTAGTGTACCGCCTCCTCAGCCTCCACCAAGGGCCCATCGGTCTTC

*Hind III*  
Pr. 8 ACGCAAGCTTTTACTAGGTACCTTTACCCGGAGACAGGGAGAG

FIG.4B.

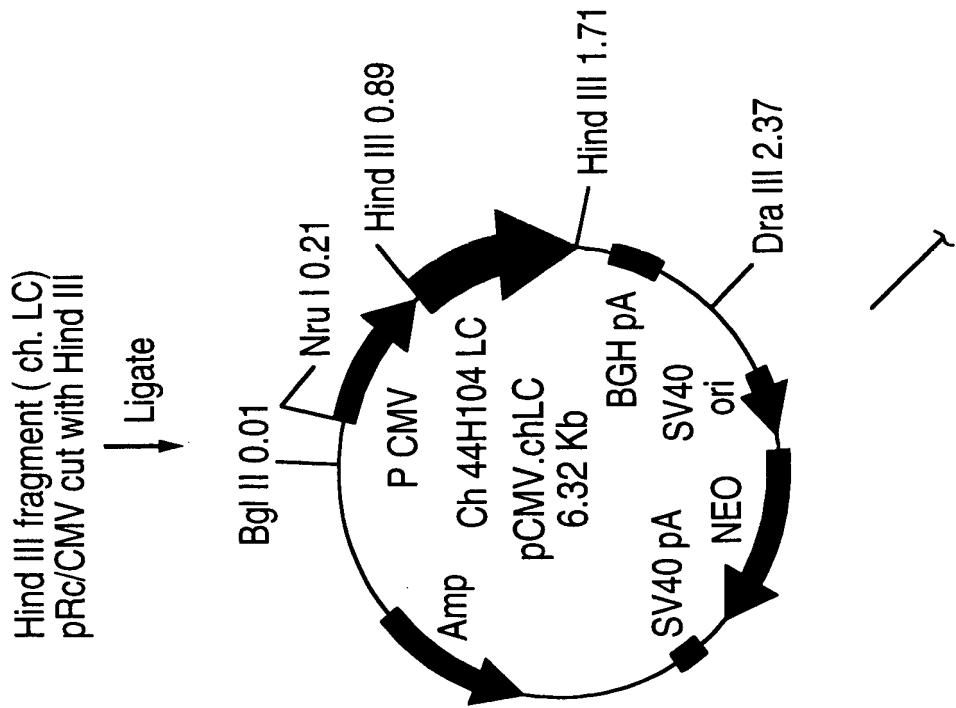
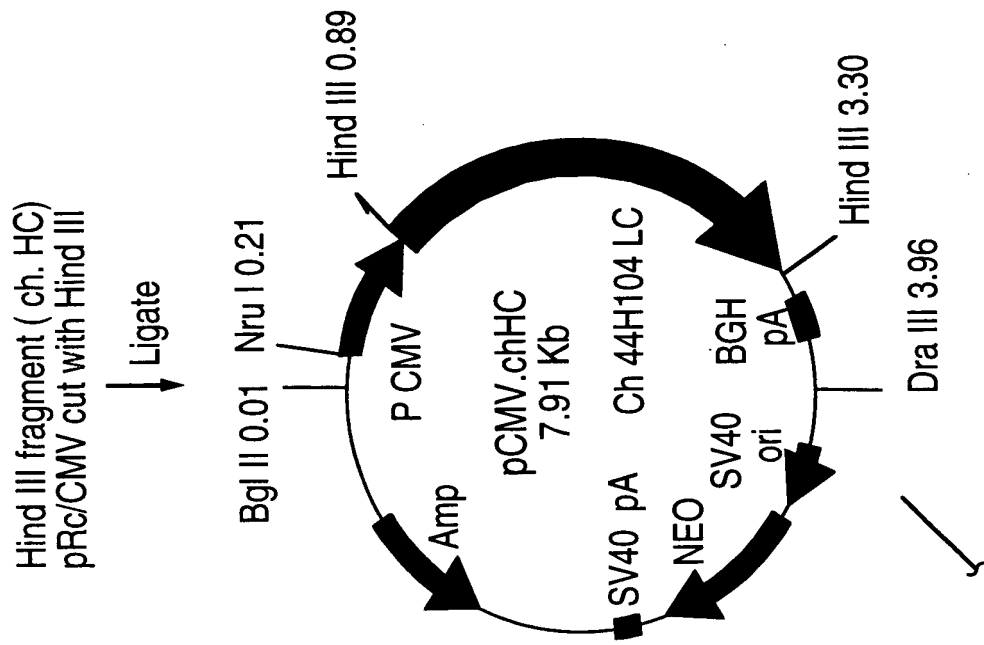


FIG.5A

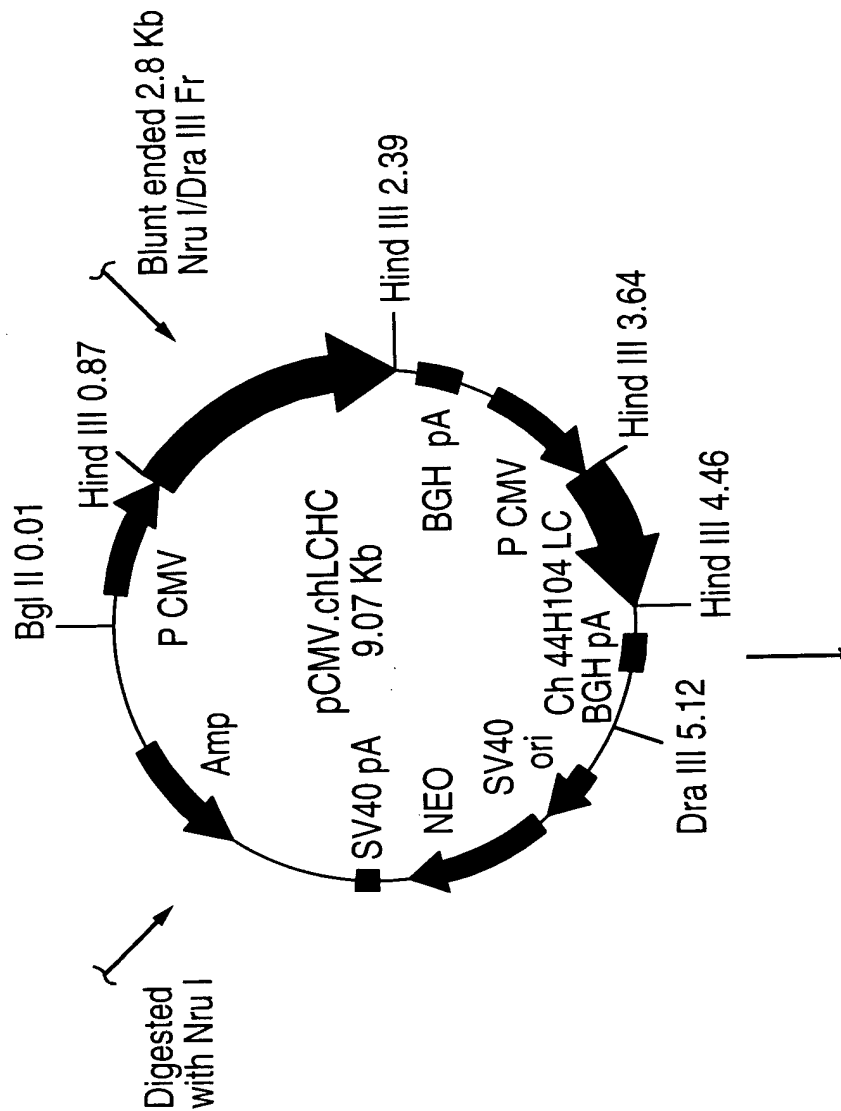


FIG.5B

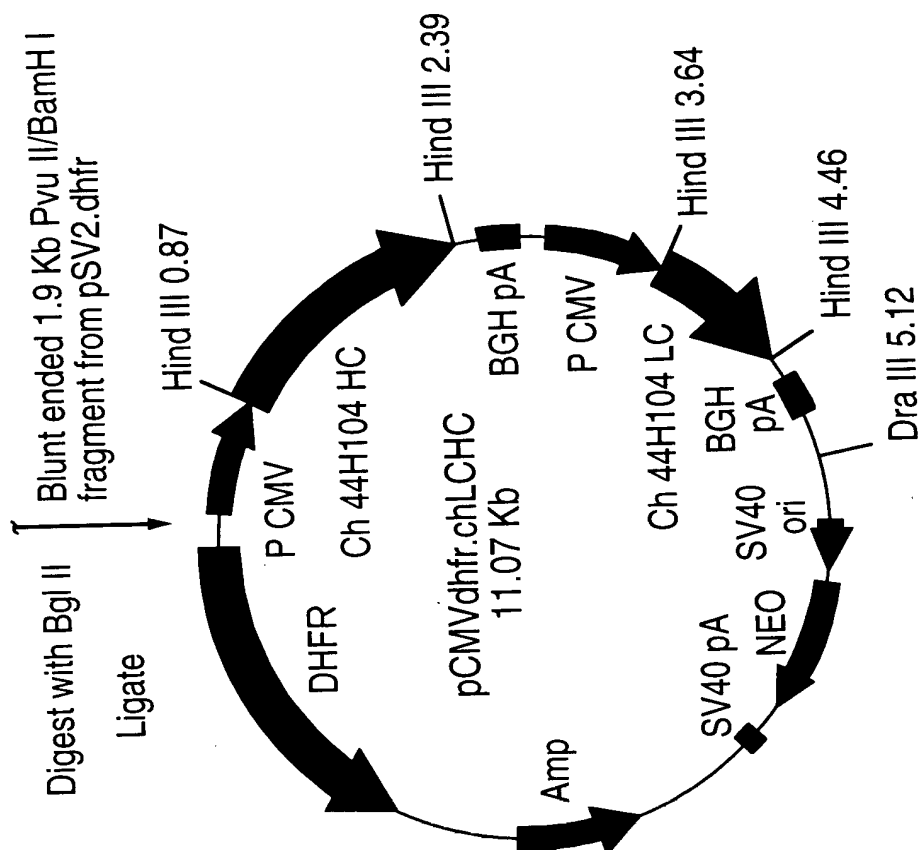


FIG.5C

Epitope Recognition on Recombinant  $H^+L^+$  Human  
Chimeric Antibody Bound to HLA-DR  
Anti-Human IgG

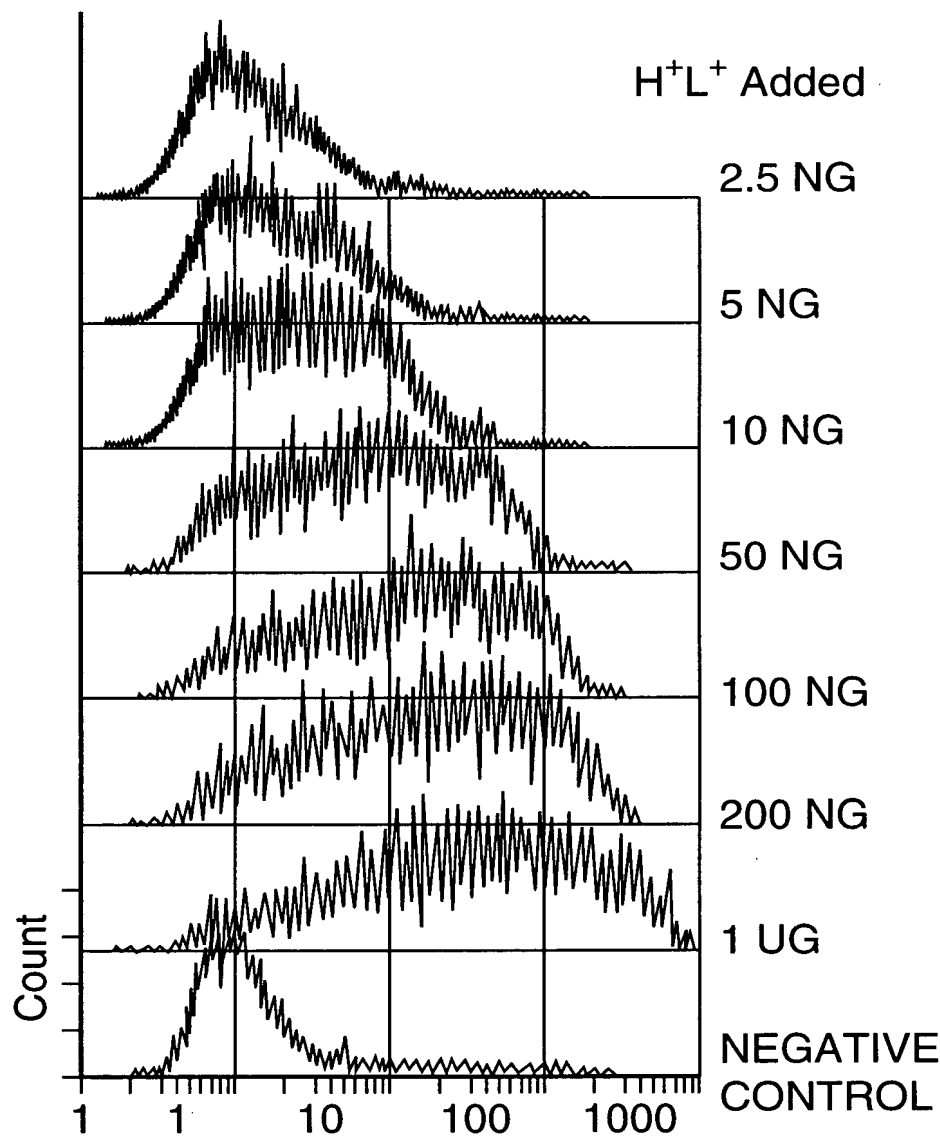


FIG. 6A



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

Epitope Recognition on Recombinant H<sup>+</sup>L<sup>+</sup> Human  
Chimeric Antibody Bound to HLA-DR  
Anti-CLTB-36

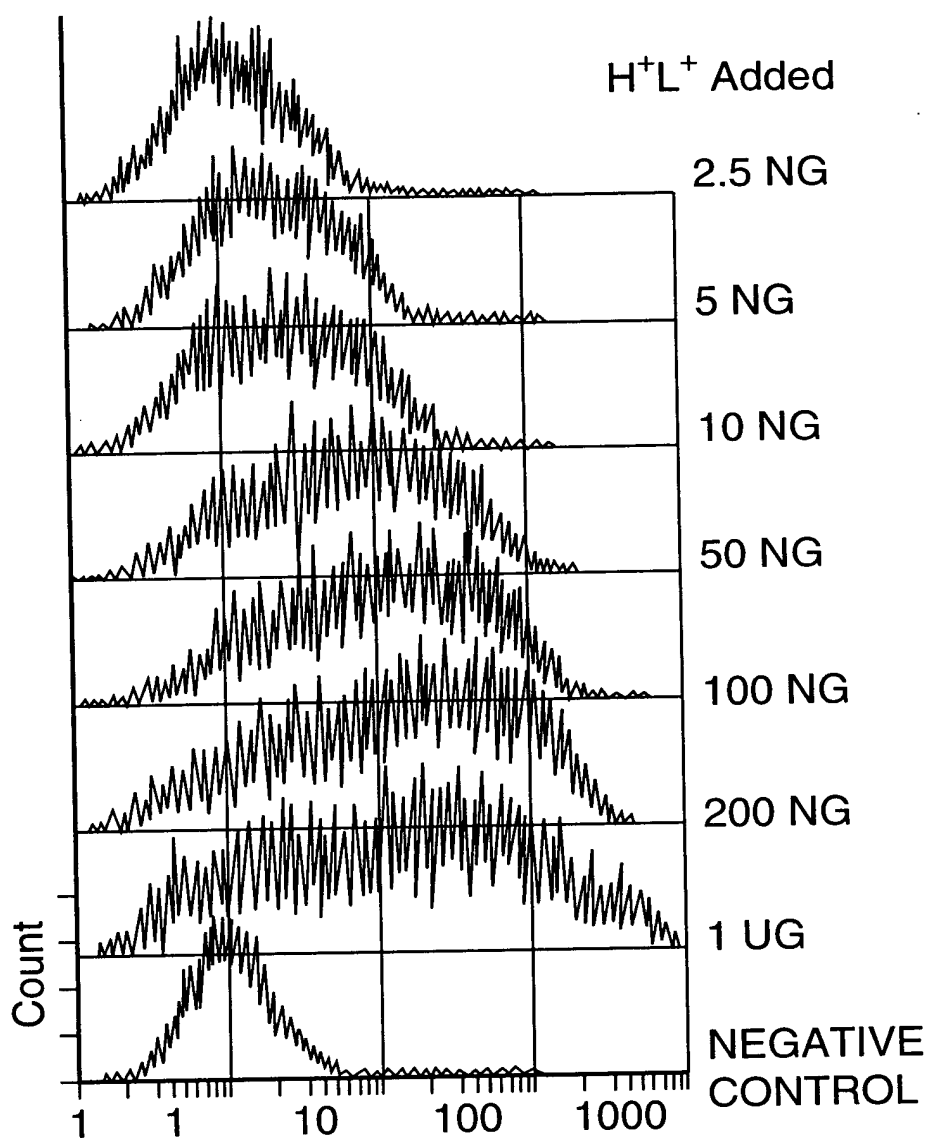


FIG. 6B

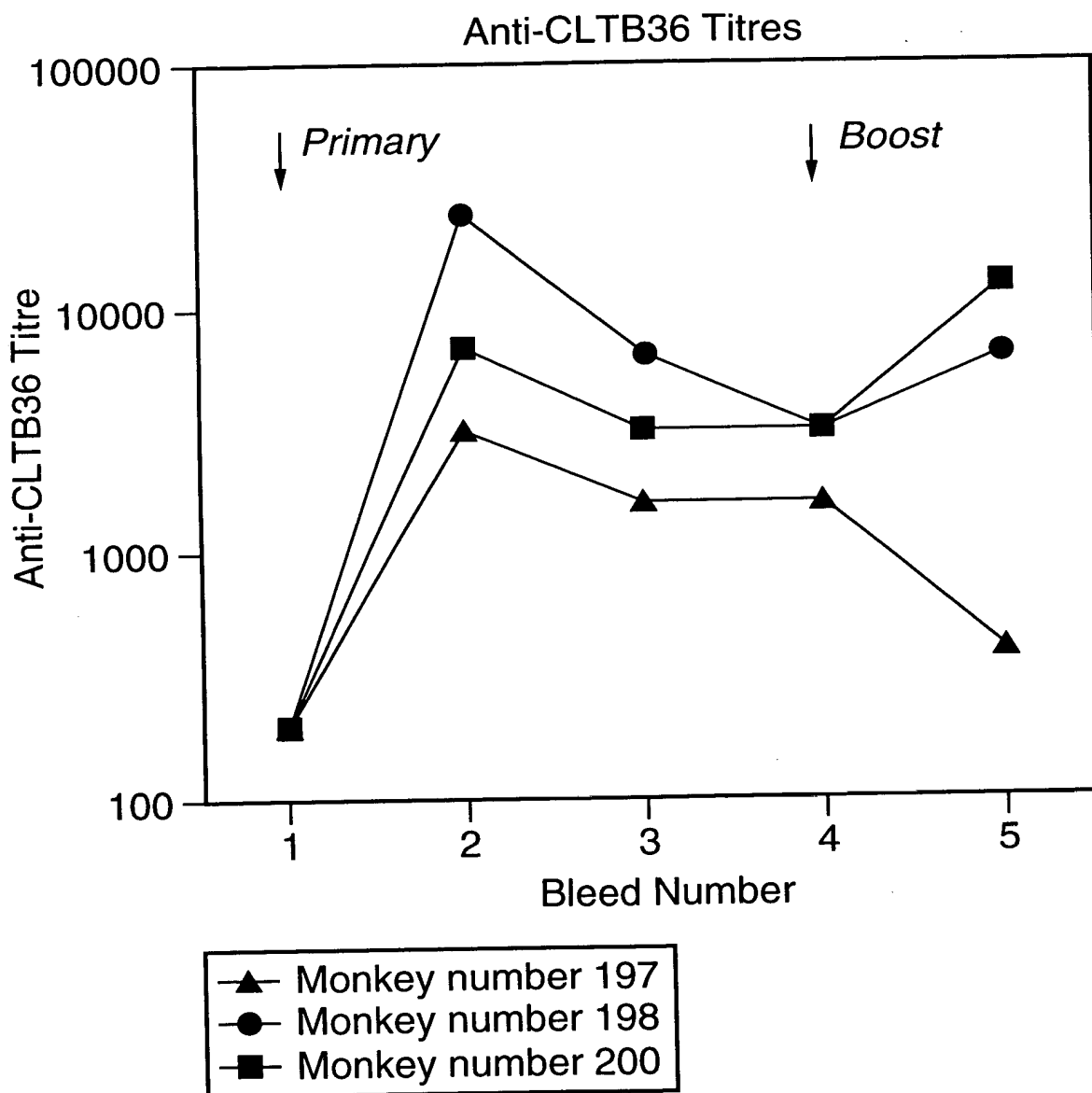


FIG.7

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

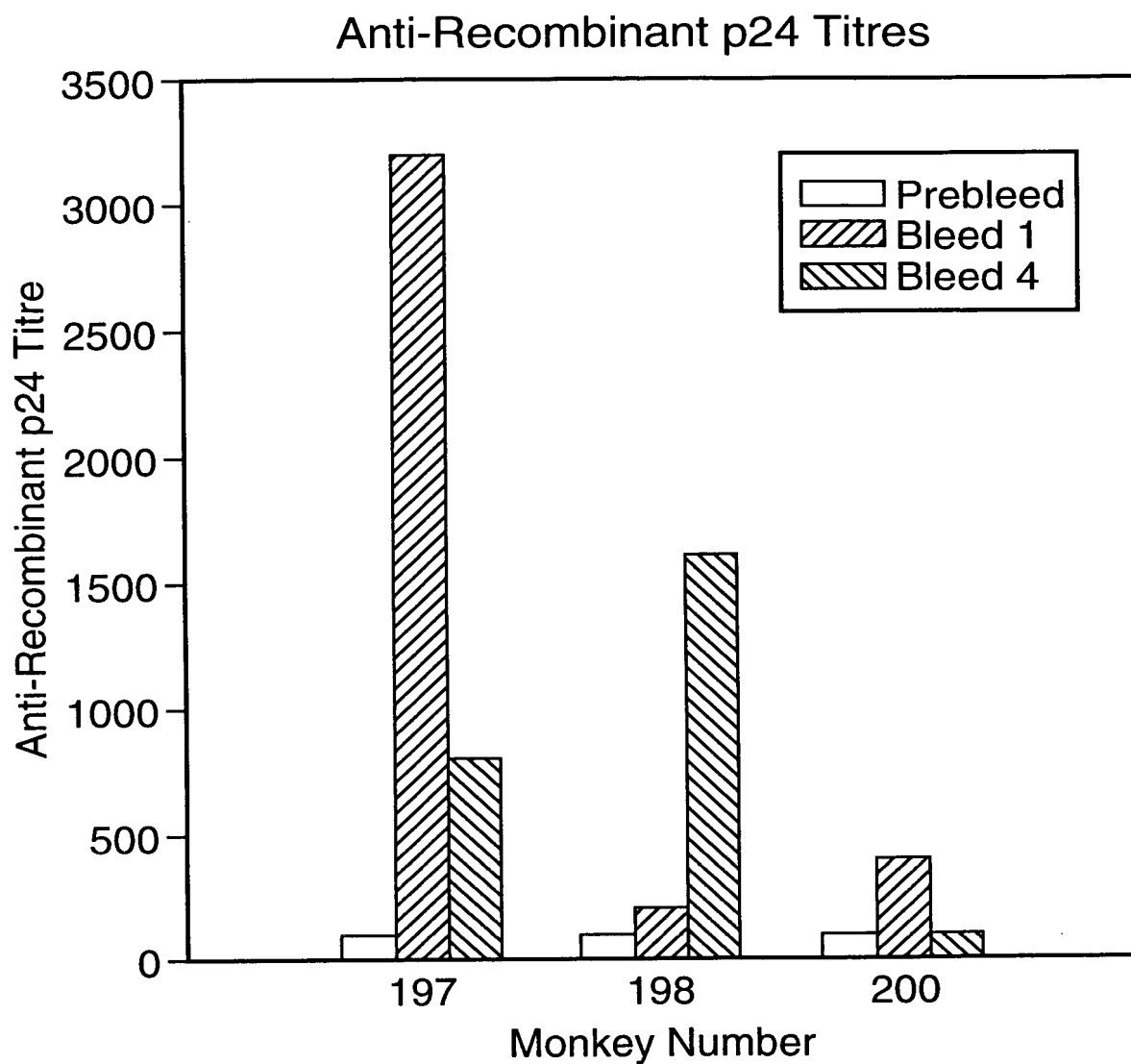
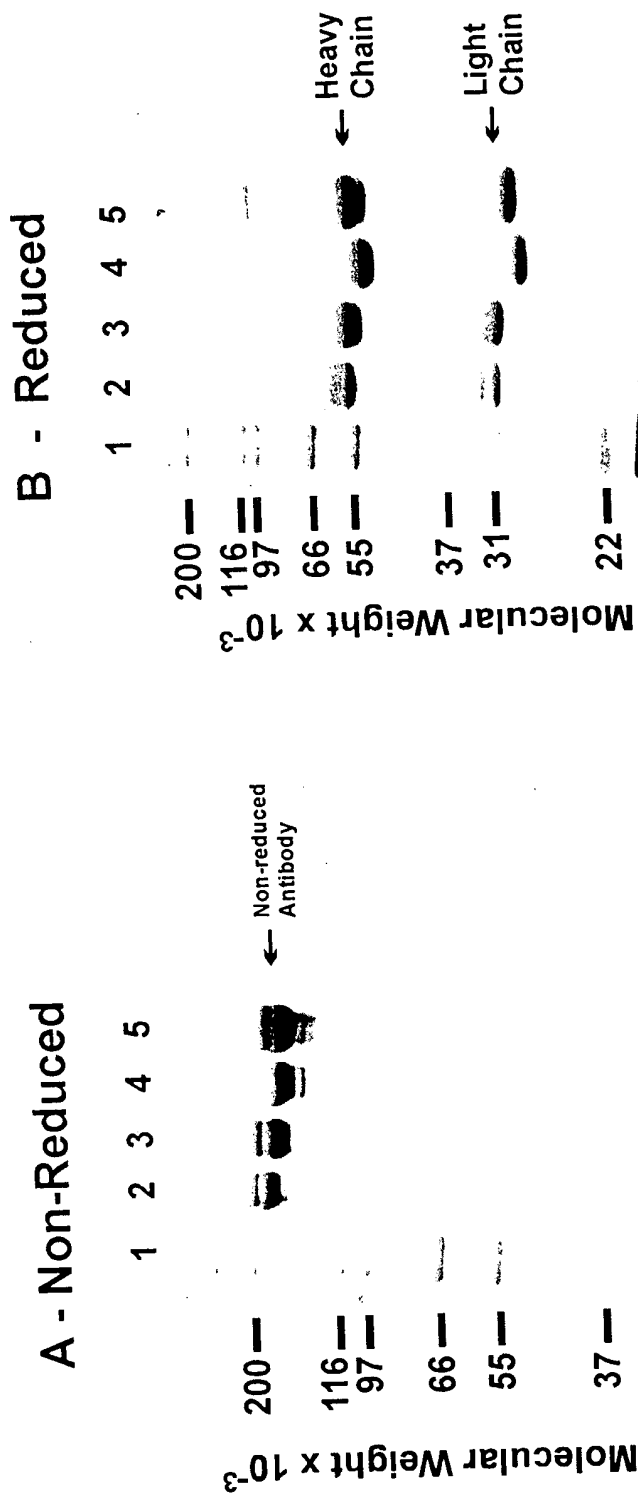


FIG.8



Lane 1 Molecular weight standards  
 Lane 2 Recombinant targeting antibody - Protein A purified  
 Lane 3 Recombinant targeting antibody - gel filtration purified  
 Lane 4 Mouse monoclonal antibody 44H104  
 Lane 5 Human IgG<sub>1</sub>

FIG. 9.

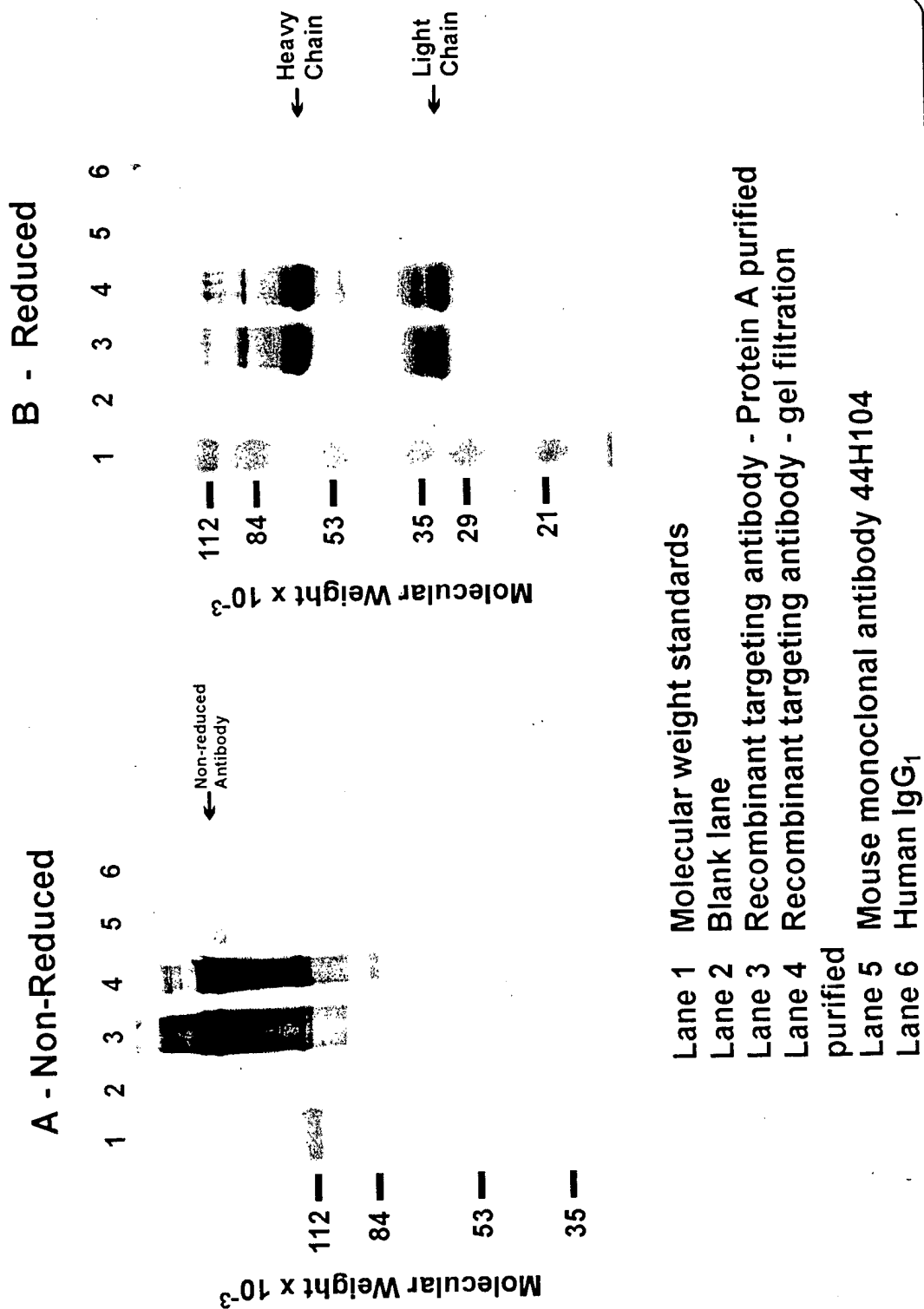


FIG.10.